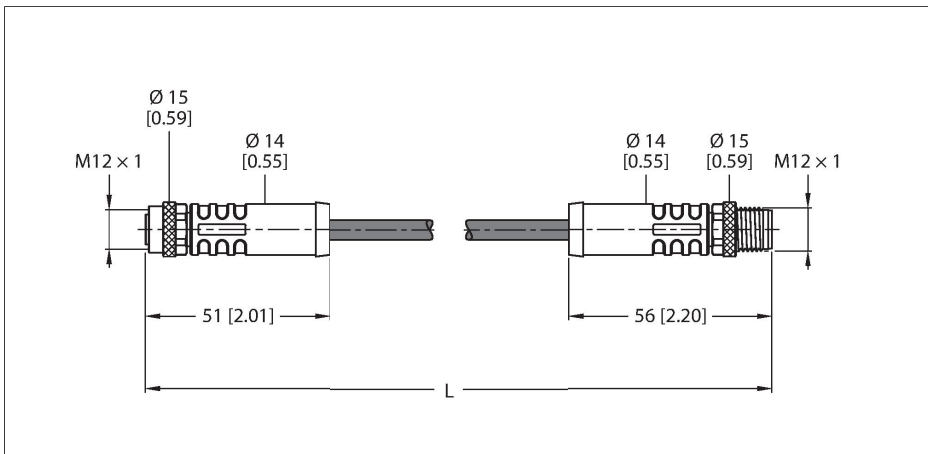


# RKP46PTA-0.3-RSP46PTA/TXL

## Supply Cable — M12 Power – Extension Cable



### Technical data

|                              |                                               |
|------------------------------|-----------------------------------------------|
| Type                         | RKP46PTA-0.3-RSP46PTA/TXL                     |
| ID                           | 100038863                                     |
| Connector A                  | Female, M12 × 1, Straight, T-coded            |
| Number of Pins               | 4                                             |
| Contacts                     | Brass, CuZn, Gold-plated                      |
| Contact carriers             | Plastic, PA, Black                            |
| Connector body               | Plastic, TPU, Black                           |
| Coupling nut/screw           | Brass, CuZn, Nickel-plated                    |
| Seal                         | Plastic, FPM/FKM                              |
| Tightening torque            | 1 Nm                                          |
| Mechanical lifespan          | > 100 Mating cycles                           |
| Pollution degree             | 3                                             |
| Protection class             | IP65, IP67, IP68, Only in screwed condition   |
| Connector B                  | Male, M12 × 1, Straight, T-coded              |
| Number of pins               | 4                                             |
| Contacts                     | Brass, CuZn, Gold-plated                      |
| Contact carriers             | Plastic, PA, Black                            |
| Connector body               | Plastic, TPU, Black                           |
| Coupling nut/retaining screw | Brass, CuZn, Nickel-plated                    |
| Tightening torque            | 1 Nm                                          |
| Mechanical life              | > 100 Mating cycles                           |
| Pollution degree             | 3                                             |
| Protection class             | IP65, IP67, IP69K, Only when screwed together |
| Cable                        |                                               |
| Cable diameter               | Ø 9.6 mm ±0.20                                |
| Cable length                 | 0.3 m                                         |

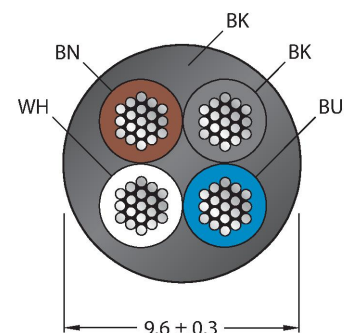


### Features



- M12 female connector, T-coded, straight, 4-pin
- M12 male connector, T-coded, straight, 4-pin
- Jacket material: PUR
- Jacket color: black
- Highly resistant to oils, coolants, lubricants and emulsions
- Suitable for drag chain use
- Resistant to vibrations and shocks
- Flame retardant
- Halogen free
- Norms: CE, UKCA and RoHS
- Protection class: IP65, IP67, IP68
- Cable length: 0.3 m

### Cable Cross-Section



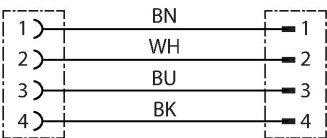
### Contact assignment

Technical data

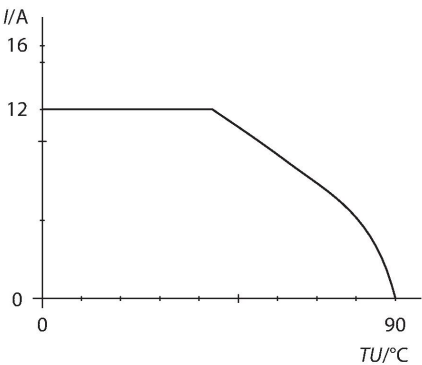
|                                                 |                                        |
|-------------------------------------------------|----------------------------------------|
| Cable jacket                                    | PUR, Black                             |
| Core insulation                                 | PP                                     |
| Core cross-section                              | 4 x 1.5 mm <sup>2</sup>                |
| Core colors                                     | BN, WH, BU, BK                         |
| Electrical properties at +20 °C                 |                                        |
| Rated voltage                                   | 50 V <sub>AC</sub> /63 V <sub>DC</sub> |
| Current                                         | 12 A                                   |
| Mechanical and chemical properties              |                                        |
| Bending radius (stationary installation)        | ≥ 4 x Ø                                |
| Bending radius (flexible use)                   | ≥ 8 x Ø                                |
| Bending cycles                                  | ≥ 8 million                            |
| Admissible acceleration                         | max. 5 m/s <sup>2</sup>                |
| Admissible travel path, horizontal              | 5 m (at 5 m/s <sup>2</sup> )           |
| Torsional stress                                | ± 270 °/m                              |
| Ambient temperature range (stationary)          | -40...+80 °C                           |
| Ambient temperature range (In motion)           | -30...+80 °C                           |
| Ambient temperature during drag chain operation | -25...+60 °C                           |
| Qualified for drag chain use                    | yes                                    |
| Halogen-free                                    | yes                                    |
| Oil-resistant                                   | yes                                    |
| Flame-retardant                                 | yes                                    |



Circuit Diagram



Derating Curve



Accessories

| Dimension drawing | Type                  | ID        |                                                                                                                                                                            |
|-------------------|-----------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   | LABEL-HOLDER-FLEX-PVC | 100048170 | PVC label holder for identification of extension cables (TEL/TXL product series); for cable diameters: min. 5 mm; dimensions 4 × 18 mm; delivery unit: 50 pcs. per package |
|                   | VH2-M12T-M4-2F4       | 100028589 | Small h-splitter, M12 Power, T-coded, 4-pin                                                                                                                                |
|                   | VH3-M12T-M4-3F4       | 100028593 | Large H-splitter, M12 Power, T-coded, 4-pin                                                                                                                                |
|                   | VT2-M12T-M4-2F4       | 100028581 | T-splitter, M12 Power, T-coded, 4-pin                                                                                                                                      |